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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/774,208	01/30/2001	Paul A. Hosier	D/A0135	7367

7590

06/17/2004

Patent Documentation Center
Xerox Corporation
100 Clinton Avenue South, Xerox Sq. 20th Floor
Rochester, NY 14644

EXAMINER

YE, LIN

ART UNIT	PAPER NUMBER
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2612

DATE MAILED: 06/17/2004

3

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/774,208

Applicant(s)

HOSIER ET AL.

Examiner

Lin Ye

Art Unit

2612

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 January 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5, 10-16 and 19 is/are rejected.
- 7) ☒ Claim(s) 6-9, 17 and 18 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 January 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>2</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities:

In page 10, line 9, "... shown in the '841 patent incorporated by reference..."

The specification does not disclose the complete patent number for '841, and Information disclosure form (PTO-1449) does not disclose this prior art reference. Applicant is required to submit an amendment which clarifies the disclosure so that the examiner may make a proper comparison of the invention with the prior art.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a) because:

The **Figure 5** is missing to label the multiplexing transistors "160O" and "160E" as described in the specification Page 13, line 3.

The **Figure 6** is missing to label "time period A", "time period B" and "time period C" as described in the specification page 13, line 10, 19 and page 14, line 3.

Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining

figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. **Figure 3** should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claim 1, 3-4, 10-14 and 19 is rejected under 35 U.S.C. 102(b) as being anticipated by Hosier U.S. Patent 5,654,755.

Referring to claim 1, the Hosier reference discloses in Figures 1, 4-5, a photosensitive apparatus (see Col. 7, lines 59-61), comprising: a first video line (108O as shown in Figure 5), having associated therewith a first set of active photosensors (odd active photosensors 102 as shown in Figure 1, see Col. 4, lines 8), each active photosensor outputting a signal representative of light intensity thereon onto the first video line; a first correction capacitor (130O as shown in Figure 5, see Col. 7, lines 10-11) associated with the first video line, the correction capacitor adapted to retain a correction charge thereon to influence signals from the active photosensors on the first video line; a second video line (108E as shown in Figure 5), having associated therewith a second set of active photosensors (even active photosensors 102 a shown in Figure 1), each active photosensor outputting a signal representative of light intensity thereon onto the second video line; a second correction capacitor (130E as shown in Figure 5) associated with the second video line, the correction capacitor adapted to retain a correction charge thereon to influence signals from the active photosensors on the second video line; a multiplexing node (unify gain amplify near to the Vout), accepting signals from the first video line and the second video line; and final correction means for performing an offset correction operation (150O and 150E) on signals downstream of the multiplexing node (See Col. 8, lines 7-9).

Referring to claim 3, the Hosier reference discloses further comprising for each of the first video line (180O) and the second video line (180E), a multiplexing transistor disposed between the correction capacitor (130) and the multiplexing node.

Referring to claim 4, the Hosier reference discloses further comprising for each of the first video line and the second video line, means for forcing a reference voltage (V_{REF}) onto the correction capacitor (130) as shown in Figure 4 (See Col. 7, lines 1-11).

Referring to claim 10, the Hosier reference discloses wherein the first video line is associated with odd photosensors in a linear array, and the second video line is associated with even photosensors in a linear array (See Col. 7, lines 50-51).

Referring to claim 11, the Hosier reference discloses a method of operating a photosensitive apparatus including all subject matter as discussed with respect to same comment as with claim 1.

Referring to claim 13, the Hosier reference discloses the offset-correction operations on the first and second video line (video lines 108O and 108E) comprising the steps of a first correction capacitor (130) associated with the first video line influencing the voltage signals (V_{OUTO}) from the active photosensors on the first video line; a second correction capacitor associated with the second video line influencing the voltage signals (V_{OUTE}) from the active photosensors on the second video line (See Col. 7, lines 20-25).

Referring to claim 14, the Hosier reference discloses the offset-correction operations on the first and second video line comprising the step of for each of the

first video line and the second video line, forcing a reference voltage onto the correction capacitor (See Col.7, lines 4-6).

Referring to claim 19, the Hosier reference discloses all subject matter as discussed with respected to same comment as with claim 10.

6. Claim 1-2 and 5, 11 is rejected under 35 U.S.C. 102(b) as being anticipated by Yamamoto U.S. Patent 6,002,435.

Referring to claim 1, the Yamamoto reference discloses in Figure 4, a photosensitive apparatus, comprising: a first video line (vertical line 1), having associated therewith a first set of active photosensors ($120_{1.1}$ - $120_{M.1}$, see Col. 18, lines 35), each active photosensor (130) outputting a signal representative of light intensity thereon onto the first video line; a first correction capacitor (250 in line 1, see Col. 19, lines 16-20) associated with the first video line, the correction capacitor adapted to retain a correction charge thereon to influence signals from the active photosensors on the first video line; a second video line (vertical line N), having associated therewith a second set of active photosensors ($120_{1.N}$ - $120_{M.N}$), each active photosensor outputting a signal representative of light intensity thereon onto the second video line; a second correction capacitor (250 in line N) associated with the second video line, the correction capacitor adapted to retain a correction charge thereon to influence signals from the active photosensors on the second video line; a multiplexing node (the switch elements 26 and signal output circuit 280 amplifies can be considered as a multiplexing node), accepting signals from the first video line and the second video line; and final correction means for performing an offset correction

operation (differential operation) on signals downstream of the multiplexing node (See Col. 20, lines 26-33 and Col. 22, lines 46-52).

Referring to claim 2, the Yamamoto reference discloses wherein there exists no amplifier between the first correction capacitor (250) and the multiplexing node (260 and 280), and no amplifier between the second correction capacitor and the multiplexing node.

Referring to claim 5, the Yamamoto reference discloses the final correction means including a main correction capacitor (282, See Col. 20, line 16-18)) associated with the multiplexing node (260 and 280), the main correction capacitor adapted to retain a correction charge thereon to influence the voltage signals from the active photosensors from the first video line and the second video line.

Referring to claim 12, the Yamamoto reference discloses all subject matter as discussed with respect to same comment as with claim 2.

Referring to claims 15-16, the Yamamoto reference discloses the final offset-correction step including the step of determining a correction charge on the main correction capacitor a main correction capacitor (282) and influencing voltage signals on the multiplexing node (i.e. make sure the voltage of node 28 remains stable with out fluctuation, see Col. 22, lines 50-52).

Allowable Subject Matter

7. Claims 6-9 and 17-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Lin Ye** whose telephone number is **(703) 305-3250**. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy R Garber can be reached on (703) 305-4929.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, DC. 20231

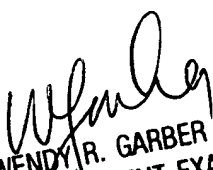
Or faxed to:

(703) 872-9314

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Lin Ye
June 9, 2004


WENDY R. GARBER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600